

SABIC Innovative Plastics NORYL PN275F PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

PPE+PS with low mineral loading. High heat, platable applications. NSF approved for water contact applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PN275F-PPEPS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|--------------|
| Specific Gravity | 1.11 g/cc | 1.11 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0090 cm/cm @Thickness 3.20 mm | 0.0060 - 0.0090 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 5.3 g/10 min @Load 5.00 kg, Temperature 280 Â°C | 5.3 g/10 min @Load 11.0 lb, Temperature 536 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Tensile Strength at Break | 48.0 MPa | 6960 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 55.0 MPa | 7980 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 34 % | 34 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 6.6 % | 6.6 % | Type I, 50 mm/min; ASTM D638 |
| Tensile Modulus | 2.13 GPa | 309 ksi | 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 89.0 MPa | 12900 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.34 GPa | 339 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 2.08 J/cm | 3.90 ft-lb/in | ASTM D256 |
| Dart Drop, Total Energy | 44.0 J @Temperature 23.0 Â°C | 32.5 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|--|---|------------|
| CTE, linear, Parallel to Flow | 63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 55.8 Âµm/m-Â°C | 31.0 Âµin/in-Â°F | |

| CTE linear, Transverse to Flow Thermal Properties | Metric @ Temperature -40.0 - 40.0 Â°C | English @ Temperature -40.0 - 104 Â°F | ASTM E 831 Comments |
|--|---|---|------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 136 Â°C @Thickness 3.20 mm | 277 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 Â°C @Thickness 3.20 mm | 248 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point | 151 Â°C | 304 Â°F | Rate B/50; ASTM D1525 |

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